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DATASHEET

Nocodazole

Product overview

Name	Nocodazole
Cat No	HB3999
Biological action	Inhibitor
Purity	>98%
Description	Mitosis inhibitor, widely used as a cell cycle synchronizing agent. Enhances HDR efficiency and increases Cas9-mediated gene editing frequencies.

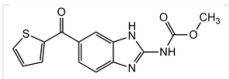
Biological Data

Biological description	Mitosis inhibitor which induces microtubule depolymerization <i>in vivo</i> and inhibits tubulin polymerization. Arrest cell cycle at the G2/M phase. Widely used as a cell cycle synchronizing agent. Enhances homology-directed repair (HDR) efficiency (depending on cell cycle phase) and increases Cas9-mediated gene editing frequencies.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	301.3
Chemical structure	
Molecular Formula	C ₁₄ H ₁₁ N ₃ O ₃ S
CAS Number	31430-18-9
PubChem identifier	4122
SMILES	<chem>COC(=O)NC1=NC2=CC(=CC=C2N1)C(=O)C1=CC=CS1</chem>
InChIKey	KYRVNWMVYQXFEU-UHFFFAOYSA-N
Appearance	White to off-white solid

References

Nanomolar concentrations of nocodazole alter microtubule dynamic instability in vivo and in vitro.

Vasquez et al (1997) Mol Biol Cell 8(6):

PubMedID [9201709](#)

Microtubule disruption inhibits autophagosome-lysosome fusion: implications for studying the roles of aggresomes in polyglutamine diseases.

Webb et al (2004) Int J Biochem Cell Biol 36(12)

PubMedID 15325591

Enhanced homology-directed human genome engineering by controlled timing of CRISPR/Cas9 delivery.

Lin et al (25497837) Elife 15(3)

PubMedID 25497837
